CURRICULUM VITAE

Ryan C. Kirkbride

I. BIOGRAPHICAL DATA

A. CONTACT

Department of Molecular Biosciences
College of Natural Sciences
University of Texas at Austin
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B. CITIZENSHIP

United States of America

II. EDUCATION

A. POSTDOCTORAL

INSTITUTION: University of Texas at Austin
POSITION: Postdoctoral Fellow
DATES: June 2013- Present
SUPERVISOR: Dr. Z. Jeffrey Chen, Department of Molecular Biosciences

B. GRADUATE

INSTITUTION: University of California, Davis
DEGREE: Ph.D., Plant Biology 2013
DATES OF ATTENDANCE: September, 2005 – June 2013
ADVISOR: Dr. John J. Harada, Department of Plant Biology

INSTITUTION: San Jose State University
DATES OF ATTENDANCE: September, 2002 - May 2005
ADVISOR: Dr. Chris Brinegar

C. UNDERGRADUATE

INSTITUTION: University of California, Berkeley
DEGREE: B.S., Integrative Biology 2000
DATES OF ATTENDANCE: August 1996 - May 2000

III. WORK EXPERIENCE

Research Assistant — Interlink Biotechnologies, LLC
2000-2002

IV. TEACHING EXPERIENCE

HEAD TEACHING ASSISTANT

Science and Society 70A: Genetic Engineering in Medicine, Law and Agriculture, Science and Society. University of California, Davis (additionally Honors Collegium 70A, UCLA).

-Responsibilities included supervision of a 4-person team of teaching assistants for a course taught cooperatively at UC Davis and UCLA via videoconference. Carried out an update of discussion section content and materials. Coordinated video production teams

at UCD and UCLA and trained undergraduate course alumni to serve as teaching assistants. Setup lecture and discussion demonstration materials and exercises. Lead discussion sections and handled grading of assignments and examinations.

-Dates: Winter 2011

TEACHING ASSISTANT

Plant Biology 112: Plant Growth and Development. University of California, Davis.

-Responsibilities included leading discussion sections, writing and revision of discussion, quiz and test materials.

-Dates: Winter 2012

Plant Biology 113: Molecular and Cellular Biology of Plants. University of California, Davis. Spring 2010.

-Responsibilities included leading discussion sections, writing and revision of discussion, quiz and test materials

-Dates: Spring 2010, Spring 2008

Science and Society 70A: Genetic Engineering in Society, Medicine and the Law. University of California, Davis (additionally Honors Collegium 70A, UCLA).

-Responsibilities included leading discussion sections, writing and revision of discussion, quiz and test materials. Lead trip of UC Davis students to meet UCLA classmates/instructors and carry out oral midterm exam.

-Dates: Winter 2010, Winter 2009

Biological Sciences 1C: Introductory Biology (Botany and Ecology). University of California, Davis.

-Responsibilities included leading laboratory sections and grading of course materials.

-Dates: Spring 2007.

Biology 3L: Cell Biology Laboratory. San Jose State University.

-Responsibilities included leading laboratory sections and grading of course materials.

-Dates: Spring 2005, Fall 2004, Spring 2004, Fall 2003, Spring 2003

Biology 5: Computer Literacy in Biology. San Jose State University.

-Responsibilities: Supervised and tutored for self-paced computer laboratory.

-Dates: Fall 2004.

Biology 21L: Human Biology Laboratory. San Jose State University.

-Responsibilities included leading laboratory sections and grading of course materials.

-Dates taught: Spring 2004, Fall 2003.

GUEST LECTURES IN COURSES

2013 Plant Biology 220, Plant Development: Embryogenesis and Genomic Approaches Understanding Seed Development. University of California, Davis.

2012 Genetics 201A, Genetic Analysis: Genetics and Epigenetics of Reproductive Development. University of California, Davis.

Plant Biology 113, Molecular and Cellular Biology of Plants: miRNA Biogenesis and Leaf Patterning. University of California, Davis.

Plant Biology 112 Plant Growth and Development: Photoperiodic Control of Flowering. University of California, Davis.

2011 Plant Biology 220, Plant Development: Embryogenesis and Seed Development. University of California, Davis.

Biological Sciences 198, Functional Genomics: Gene expression Lab. University of California, Davis.

2010 Plant Biology 292, 1st Year Graduate Student Seminar: qPCR and Microarrays University of California, Davis.

BIS 198, Functional Genomics: Transcriptome Data Analysis Laboratory University of California, Davis.

V. HONORS

2011 Outstanding Graduate Student Teaching Award, UC Davis Office of Graduate Studies and Graduate Council.

2010 Walter R. and Roselinde H. Russel Fellowship for the Outstanding Plant Biology Graduate Student, UC Davis Dept. of Plant Biology.

2009 ICAR Travel Award, North American Arabidopsis Steering Committee.

Elsie Taylor-Stocking Memorial Travel Award, UC Davis Dept. of Plant Biology.

2007 Elsie Taylor-Stocking Memorial Fellowship, UC Davis Dept. of Plant Biology,

VI. LECTURES / INVITED TALKS

2017 Seed Institute Annual Conference, Lake Arrowhead, CA

2015 UT Austin Department of Plant Biology Plant Luncheon

2014 Seed Institute Annual Conference, Lake Arrowhead, CA

2012 10th International Congress on Plant Molecular Biology, Jeju, South Korea
Seed Institute Annual Conference, Lake Arrowhead, CA

2011 Global COE International Student Workshop, Nara, Japan
Seed Institute Annual Conference, Lake Arrowhead, CA

2010 UC Davis Plant Cell Biology Training Grant Retreat, Asilomar,, CA
Seed Institute Annual Conference, Lake Arrowhead, CA

2009 UC Davis Plant Biology Graduate Group Student Seminar Series
UC Davis Celebration of Plant Biology
UC Davis Plant Cell Biology Training Grant Retreat, Asilomar,, CA
UC Davis Plant Biology Graduate Group Fall Colloquium
UC Davis Molecular Cell Biology Training Grant Retreat, Fallen Leaf Lake, CA
Seed Institute Annual Conference, Lake Arrowhead, CA

2008 UC Davis Plant Biology Graduate Group Student Seminar Series

2007 UC Davis Plant Biology Graduate Group Student Seminar Series
UC Davis Celebration of Plant Biology
UC Davis Plant Cell Biology Training Grant Retreat, Fallen Leaf Lake, CA
Seed Institute Annual Conference, Lake Arrowhead, CA
UC Davis Plant Cell Biology Training Grant Retreat, Asilomar,, CA

2006 Seed Institute Annual Conference, Lake Arrowhead, CA

VII. POSTER PRESENTATIONS

2014 22nd Annual Seed Institute Conference, Lake Arrowhead, CA

2011 22nd International Conference on Arabidopsis Research, Madison, WI

2010 69th Society for Developmental Biology Annual Meeting, Albuquerque, NM
20th UC Davis Plant Cell Biology Training Grant Retreat, Asilomar,, CA
18th Annual Seed Institute Conference, Lake Arrowhead, CA

2009 20th International Conference on Arabidopsis Research, Edinburgh, United Kingdom
19th Annual UC Davis Plant Cell Biology Training Grant Retreat, Asilomar,, CA
UC Davis Molecular Cell Biology Training Grant Retreat, Fallen Leaf Lake, CA
17th Annual Seed Institute Conference, Lake Arrowhead, CA

2008 FASEB Mechanisms in Plant Development, Saxtons River, VT
18th Annual UC Davis Plant Cell Biology Training Grant Retreat, Asilomar,, CA
16th Annual Seed Institute Conference, Lake Arrowhead, CA

2007 Plant Biology & Botany Joint Congress, Chicago, IL
15th Annual Seed Institute Conference, Lake Arrowhead, CA

2006 14h Annual Seed Institute Conference, Lake Arrowhead, CA

VIII. UNIVERSITY SERVICE

UC Davis Plant Biology Graduate Group, Seminar Series Committee, 2011-2012.

Plant Biology Graduate Group Student Association. Treasurer, 2008-2010.

UC Davis Plant Biology Graduate Group, Seminar Series Committee, 2007-2008.

Plant Biology Graduate Group Student Association. Events Coordinator, 2006-2007.

IX. REFERENCES

Chen, Jeffrey Z.
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Harada, John J.
Professor, University of California, Davis
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Goldberg, Robert B.
Professor, University of California, Los Angeles
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Fischer, Robert L.
Professor, University of California, Berkeley
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IIX. PUBLICATIONS

Kirkbride, R., Lu, J., Zhang, C., Mosher, R., Baulcombe, D., Chen, Z.H. Spatiotemporal regulation of small RNAs in gene expression and seed development. *Manuscript under rereview.*

Kirkbride, R., Yu, H., Nah, G., Zhang, C., Shi, X., Chen, Z.J. An epigenetic role for disrupted paternal gene expression in postzygotic seed abortion in Arabidopsis interspecific hybrids. (2015) Molecular Plant, 8(12):1766-1775.

Zhang, T., Hu, Y., Jiang, W., Fang, L., Guan, X., Chen, J., Zhang, J., Saski, CA., Scheffler, B.E., Stelly, D.M., Hulse-Kemp, A.M., Wan, Q., Liu, B., Liu, C., Wang, S., Pan, M., Wang, Y., Wang, D., Ye, W., Chang, L., Zhang, W., Song, Q., **Kirkbride, R.C**., Chen, X.,; Dennis, E., Llewellyn, D.J., Peterson, D.G., Thaxton, P., Jones, D.C., Wang, Q., Xu, X., Zhang, H., Wu, H., Zhou, L., Mei, G., Chen, S., Tian, Y., Xiang, D., Li, X., Ding, J., Zuo, Q., Tao, L., Liu, Y., Li, J., Lin, Y., Hui, Y., Cao, Z., Cai, C., Zhu, X., Jiang, Z., Zhou, B., Guo, W., Li, R., Chen, Z.J. Sequencing of allotetraploid cotton (Gossypium hirsutum L. acc. TM-1) provides a resource for fiber improvement. (2015) Nature Biotechnology 33(5):531-537

Khan, D., Millar, J., Girard, I., Chan, A., **Kirkbride, R**., Pelletier, J., Kost, S., Becker, M., Yeung, E., Stasolla, C., Goldberg, R., Harada, J., Bemlonte, F. Transcriptome atlas of the *Arabidopsis* funiculus- a study of maternal seed subregions. (2015) The Plant Journal, 82(1):41-53

Kirkbride, R., Fischer, R., Harada, J. (2013). LEAFY COTYLEDON1, a Key Regulator of Seed Development, is Expressed in Vegetative and Sexual Propagules of *Selaginella moellendorffii*. PLoS One, *8(6)*:e67971

Belmonte, M., **Kirkbride, R**., Stone, S., Pelletier, J, Bui, A., Yeung, E., Fei, J., Hashimoto, M., Harada, C., Munoz, M., Le, B., Cheng, C., Lu, X., Drews, G., Brady, S., Goldberg, R., Harada, J. (2013) Comprehensive developmental profiling of gene activity in *Arabidopsis* seed compartments. PNAS, *110(5*):E435-444

Hsieh, T., Shin, J., Uzawa, R., Silva, P., Cohen, S., Bauer M., Hashimoto M., **Kirkbride, R**., Harada, J., Zilberman, D., Fischer R., (2011). Regulation of imprinted gene expression in *Arabidopsis* endosperm. PNAS, *108(5)*:1755-62

Le, B., Cheng, C., Bui, A., Wagmaister, A., Henry, K., Pelletier, J., Kwong, L., Belmonte, M., **Kirkbride, R.**, Horvath, S., Drews, G., Fischer, R., Okamuro, J., Harada, J., Goldberg, R. (2010). Global analysis of gene activity during *Arabidopsis* seed development and identification of seed-specific transcription factors. PNAS, *107(18)*:8063-70

Walia, H., Josefsson, C., Dilkes, B., **Kirkbride, R.**, Harada, J., and Comai, L. (2009). Dosage-Dependent Deregulation of an AGAMOUS-LIKE Gene Cluster Contributes to Interspecific Incompatibility. Current Biology *19*, 1128-1132.

Brinegar,C., Bruno, D., **Kirkbride, R.**, Glavas, S., Udransky, U. (2007). Applications of Redwood Genotyping by Using Microsatellite Markers. USDA Forest Service, General Technical Report PSW-GTR *194,* 47–55.